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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/920,342	08/01/2001	Shi-Lung Lin	13761-7024	4134
7590 08/09/2007 WILLIAM E. THOMSON, JR. HOGAN & HARTSON LLP BILTMORE TOWER 500 SOUTH GRAND AVENUE, SUITE 1900			EXAMINER	
			CHONG, KIMBERLY	
			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90071		700	1635	
		•	MAIL DATE	DELIVERY MODE
			WAILDATE	DELIVERT MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Annti-ption M-	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Summary	09/920,342	LIN ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE of the	Kimberly Chong	1635				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 h	<u>//ay 2007</u> .					
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	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>32,34-36,38,40-45,55,58-61 and 63-71</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.	Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>36 and 60</u> are subject to restriction a	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
· · · · · · · · · · · · · · · · · · ·						
 Copies of the certified copies of the price application from the International Burea 		ed III tilis National Stage				
* See the attached detailed Office action for a lis		ed				
See the attached detailed Office action for a lis	tor the sertified depice not receive					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar Paper No(s)/Mail D					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) Notice of Informal					
Paper No(s)/Mail Date	6) 🔲 Other:					

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DETAILED ACTION

Election/Restrictions

The restriction requirement below is necessitated by Applicant's amendments filed 05/14/2007. Restriction is required under 35 U.S.C. 121 because claims 36 and 60 are drawn the following distinct inventions.

Claims 36 and 60 are subject to an additional restriction since they are not considered to be a proper genus/Markush. See MPEP 803.02 – PRACTICE RE MARKUSH-TYPE CLAIMS – if the members of the Markush group are sufficiently few in number or so closely related that a search and examination of the entire claim can be made without serious burden, the examiner must examine all the members of the Markush group in the claims on the merits, even though they are directed to independent and distinct inventions. In such a case, the examiner will not follow the procedure described below and will not require restriction. Since the decisions in In re Weber, 580 F.2d 455, 198 USPQ 300 (CCPA 1980); and In re Haas, 580 F.2d 461, 198 USPQ 334 (CCPA 1978), it is improper for the Office to refuse to examine that which applicants regard as their invention, unless the subject matter in a claim lacks unity of invention. In re Harnish, 631 F.2d 716, 206 USPQ 300 (CCPA 1980); and Ex parte Hozumi, 3 USPQ2d 1059 (Bd. Pat. App. & Int. 1984). Broadly, unity of invention exists

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where compounds included within a Markush group (1) share a common utility, and (2) share a substantial structure feature disclosed as being essential to that utility.

Claims 36 and 60 specifically claim target gene sequences comprising a region from the sonic hedgehog sequence amplified by SEQ ID NOs. 12, 13, 14 and 15, a Bcatenin sequence encoding its amino acid domain from positions 306 to 644 and a bcl-2 sequence amplified by SEQ ID Nos. 8 and 9. Each sequence is considered to be unrelated, since each sequence claimed is structurally and functionally independent and distinct for the following reasons: each of the claimed sequences are unique and therefore would require a different hybrid duplex that would bind to each unique sequence independently. Moreover, each of the claimed sequences do not share a substantial structural feature or a common utility such that a search for a hybrid duplex that binds a target gene comprising SEQ ID No. 12 would yield a hybrid duplex that binds to a target gene comprising a bcl-2 sequence amplified by SEQ ID NO. 8, for example. Furthermore, a search of more than one (1) of the claimed sequences claimed in claims 36 or 55 presents an undue burden on the Patent and Trademark Office due to the complex nature of the search and corresponding examination of more than one (1) of the claimed sequences. In view of the foregoing, one (1) sequence is considered to be a reasonable number of sequences for examination. Accordingly, applicants are required to elect a total of one (1) target gene sequence from claims 36 and 60. Note that this is not a species election.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim 32 link(s) inventions of claims 36 and 60. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim32. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Chong whose telephone number is 571-272-3111. The examiner can normally be reached Monday thru Friday between 7-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Schultz can be reached at 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see http://pair-direct.uspto.gov.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Kimberly Chong Examiner Art Unit 1635

/Sean McGarry/ Primary Examiner AU 1635